

## **RESONANT TREE DRIVEN CLOCK DISTRIBUTION GRID**

### **ABSTRACT OF THE INVENTION**

5           An integrated circuit (IC), IC assembly and circuit for distributing a clock signal  
in an integrated circuit includes a capacitive clock distribution circuit having at least one  
conductor therein. At least one inductor is formed in a metal layer of the integrated circuit  
and is coupled to the clock distribution circuit. The inductor, generally in the form of a  
number of spiral inductors distributed throughout the integrated circuit, provides an  
10          inductance value selected to resonate with the capacitive clock distribution circuit at  
resonance, power dissipation is reduced while skew and jitter performance can be  
improved.